



## New Kent County

### Water Source Overview

Major sources are groundwater wells and the Pamunkey River.

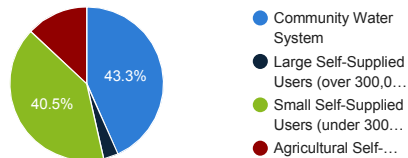
**\*Table 1:** Reported (2010) and projected (2040) water use by system type for New Kent County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	0.807	2.396
Large Self-Supplied Users (over 300,000 gal/month)	0.058	0.058
Small Self-Supplied Users (under 300,000 gal/month)	0.754	0.754
Agricultural Self-Supplied Users	0.243	0.243

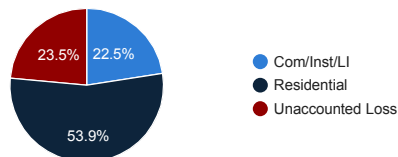
### Water Use by System Type

Approximately 9,106 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

**\*Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



**\*Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



**\*Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for New Kent County in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
1.57	0.29	3.16	0.29

**\*Figure 3:** New Kent County highlighted in the Commonwealth of Virginia



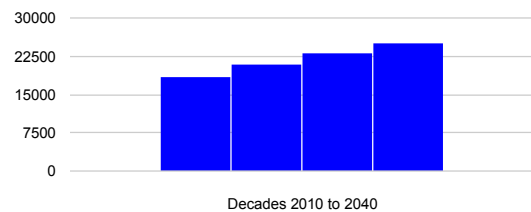
### Projected Water Demand

Population and demand are projected to increase through the planning period. Two top ranked alternatives for future water supply are an intake on the Pamunkey River (reverse osmosis water treatment) and the purchase of water from the City of Richmond.

**\*Table 3:** New Kent County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

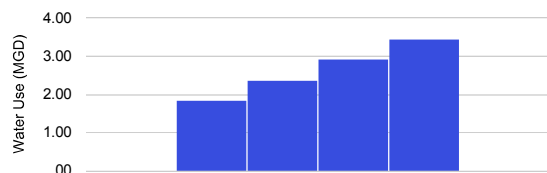
2010	2020	2030	2040	% Change (2010-2040)
18,429	21,031	23,112	25,036	38.9%

**\*Figure 4:** New Kent County population projections by decade for 2010, 2020, 2030 & 2040



**\*Table 4 & Figure 5:** New Kent County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
1.86	2.39	2.92	3.45	85.3%



### Drought Management Practices

The County adopted an ordinance for the implementation and enforcement of the Drought Response and Contingency Plan. (New Kent County Local WSP)